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PN - JP63065949 A 19880324
 TI - TREATMENT OF OIL-CONTAINING WASTE WATER
 AB - PURPOSE: To efficiently treat oil-containing waste water by a small-sized apparatus, by including and immobilizing bacteria having oil component decomposing capacity by a gel mixture of a hydrophilic polymer substance and a hydrophobic polymer substance and contacting the bacteria including and immobilizing gel obtained with oil-containing waste water. CONSTITUTION: Bacteria having oil component decomposing capacity is included and immobilized by a gel prepared by mixing hydrophilic polymer substance and a hydrophobic polymer substance and the resulting bacteria including and immobilizing gel is contacted with oil-containing waste water to decompose the oil component of said waste water. As the bacteria having the oil component decomposing capacity, there is activated sludge collected from the aeration tank of the activated sludge treatment apparatus of the waste water from an oil refining factory and subjected to conditioning culture using heavy oil A. The quantity of the oil component decomposing bacteria included and immobilized by the gel prepared by mixing the hydrophilic and hydrophobic polymer substances is pref. set to 1-100g (dry bacteria wt. basis) per 1l of gel.
 FI - B01J20/26&J; C12N11/08; C12N11/08&Z
 PA - MITSUBISHI HEAVY IND LTD
 IN - SUGATA KIYOSHI; UEDA RYOHEI
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 DT - I

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AN - 1988-122577 [18]
 TI - Disposing oil-contg. waste water using fixed bacteria obtd. by contacting waste water with bacteria fixed by gel obtd. by mixing hydrophilic and hydrophobic polymers
 AB - J63065949 Bacteria capable of decomposing oil are enclosed and fixed by a specific gel prep'd. by mixing hydrophilic polymer materials and hydrophobic polymer materials. The waste water is contacted with the enclosed fixed bacteria.
 - 10 pts. vol. of photosetting resin having polyethylene glycol main chain and ethylenic unsatd. end gps., 10 pts. vol. of photosetting resin having polypropylene glycol main chain and ethylenic unsatd. end gps., 0.3 pts. vol. of photopolymerisation initiator, and 4 pts. vol. of bacteria suspension were mixed. The mixt. was formed into a gelled sheet by light irradiation.
 - ADVANTAGE - Disposing rate is increased and the size of disposing facilities can be minimised.
 Bacteria hardly flow out of the reactor, so the disposing can be carried out stably. Oil can be decomposed into harmless CO₂ and water.(0/1)
 IW - DISPOSABLE OIL CONTAIN WASTE WATER FIX BACTERIA OBTAIN CONTACT WASTE WATER
 BACTERIA FIX GEL OBTAIN MIX HYDROPHILIC HYDROPHOBIC POLYMER
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